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EDW. J. NOLAN,
Librarian.

REPORT OF THE CURATORS.

The Curators respectfully report that the Museum of the Academy continues in its usual good state of preservation. The following report of the Curator in charge gives brief notice of what has been done, and the additions which have been made during the year.

Sir:—I would respectfully report, that during the year all the collections of the Museum have been carefully inspected and cared for, and that they are in good condition. The vertebrate fossils are in process of arrangement.

Dr. J. Allen Kite has been engaged in the arrangement of the collection of Bird-skeletons, and Mr. Angelo Heilprin in the arrangement of the Invertebrate fossils.

The specimens received during the year have been labeled and placed in their proper positions.

The contributions in the various departments during the year, excepting those reported on by some of the special sections, are as follows:—

Mammals.—Zoological Society of Philadelphia: Two *Macacus ocreatus*, *Macacus maurus*, *Ateles ater*, *Cercopithecus lalandi*, *Pteropus vulgaris*, *Herpestes griseus*, *Bassaris astuta*, *Viverra indica*, two *Tragulus Javanicus*, *Dasyprocta acouchi*, *Cælogenys paca*, *Sciurus variabilis*, *Hypsiprymnus rufescens*. Jacob Binder: A colloidal mass with nodules of osteo-dentine embedded, from the tusk of an Elephant. Dr. H. C. Chapman: Placenta of Asiatic Elephant, born in Philadelphia. Dr. Geo. H. Horn: Two *Atalapha* (*Lasiurus*) *noveboracensis*, Phila. Jos. Jeanes: Two young Elephant skulls, *Elephas indicus* and *E. africanus*. Albert Koebele: *Nycticejus crepuscularis*, Florida. Dr. Jos. Leidy: *Hesperomys* (sp.). Roan Mt., N. C.; Buffalo jaw, from a forest in the Uintah Mts., portion of the great part of a skeleton observed by him in the locality in which it is now extinct. Miss Miller: Horns of Chamois, Alps. W. S. Vaux: Young Orang-Outang, from Philadelphia Zoological Gardens.

Birds.—Philadelphia Zoological Society: *Sycalis flaveola*, *Brotogeterys xanthoptera*, Brazil; *Anser indicus*. F. W. Allen: *Dio-*

medea exulans. Hill: *Otus vulgaris*. Mrs. Herbert Russell Walsh: Two hundred and ninety-seven (one hundred and twenty-one species) Bird skins, collected and prepared by the late Robert Frazer.

Amphibians and Fishes.—Albert Koebele: Eleven species Amphibians, Florida. Dr. Jos. Leidy: Two species Salamanders, two do. Fishes, Roan Mt., N. C. Dr. H. Allport: *Erimyzon sucetta*, Centre Co., Pa. S. W. Ayer: Opercular bones, etc., *Megalops thrissoides*. Mr. Holbrook: *Argyriosus* (Vomer) *setipinnis*, Atlantic coast, Md. Dr. W. H. Jones: Nine species of Fishes, Atlantic and Pacific Oceans. J. E. Mitchell: *Amblyopsis spelaeus*, Mammoth Cave, Ky. National Mus., through Smiths. Inst.: Fifty-two species of North American Fishes.

Articulates.—J. J. Brown: *Lepas pectinata*, *Balanus*, etc., Florida. Dr. H. C. Chapman: *Lepidnotus*, and *Nymphon*, Mt. Desert, Me. C. Chambers: *Grillotalpa longipennis*, Philadelphia. John Ford: *Libinia canaliculata*, Atlantic City, N. J. Geo. Heberton: *Libinia canaliculata*, *Limulus polyphemus*, Cape May, N. J. Dr. W. H. Jones: Thirty-four species Crustacea, Atlantic and Pacific Oceans; *Nautilograpsus minutus*, taken from side of ship *Acapulco*. J. S. Kingsley: Six species Crustacea, in exchange. Dr. J. A. Kite, Wasps' nest, Morgan Co., Pa. Albert Koebele: Two species Crustaceans; two species Myriopoda, from Florida. J. E. Mitchell: Nest of *Tarantula*, California. Dr. T. H. Streets: Forty-two specimens Lepidoptera, Mantis (sp.), Yokohama, Japan. U. S. Fish Commission, through Smiths. Inst.: Thirty named species of Crustacea, Coast of New England.

Vermes, Echinoderms, Cœlenterates, Bryozoans and Porifera.—U. S. Fish Commission, through Smiths. Inst.: Thirteen species of Annelida, Coast of New England. Dr. W. H. Jones: Four species of Annelida, Pacific Ocean. Dr. Jos. Leidy: Lice from the interior of pouch of White Pelican (*Menopon perale*, Leidy), Florida. Laura M. Towne: *Filaria immitis*, from heart of dog, Beaufort, S. C. J. J. Brown: *Cidaris tribuloides*, Haiti. John Ford: *Euryale* (sp.), Palermo, Italy. U. S. Fish Commission, through Smiths. Inst.: Sixteen species Echinodermata, Coast of New England. Dr. W. D. Hartman: *Rotula* (sp.), Madagascar? U. S. Fish Commission, through Smiths. Inst.: Eleven species of Cœlenterata, Coast of New England. Dr. W. H. Jones: Thirteen species Cœlenterata, Pacific Ocean. Dr. H. C. Chapman: Hydroids, from Mt. Desert, Me. U. S. Fish Commission, through Smiths. Inst.: Fifteen species Bryozoans and Porifera, Coast of New England.

Anna T. Jeanes: Glass models of *Physophora magnifica*, *Diphyes Sieboldi*, *Cyanea capillata*, *Oceania phosphorica*, *Sagartia bellis*, *Palythoa auricula*, *Phellia picta*, *Corynactis clavigera*, *Nemacula primula*, *Peachia hastata*, *Phymactis florida*, *Evactis artemisia*, *Tubularia indivisa*, *Corymorpha nutans*, *Laomedea amphora*, *Bougainvillia fruticosa*.

Fossils.—Dr. Carter, through Dr. Jos. Leidy: Fragments of bones of *Uintatherium*, *Palæosyops*, and fossil turtle-eggs, near Ft. Bridger, Wyoming. Walter Collins: Eight species of Fossils from the cretaceous marl, Blackwoodtown, N. J. Dr. Corson, through Dr. Jos. Leidy: Femur and fragments of jaw of *Palæosyops major*, and foot-bones of *Uintatherium*, near Fort Bridger, Wyoming. Persifor Frazer: Two fossils. Wm. M. Gabb: Fish teeth, Martinez, Contra Costa Co., Cal. G. N. P. Gale: Shark's teeth and fragments of bone, Ashley River beds, S. C. Gustavus Guttentberg: Fossil Fucoid? near Erie, Pa. M. Hotchkiss and John Gibb: Three fossils, Central coal shaft, Fairburg, Ill. Dr. Geo. M. Lawrence: *Ammonites* (sp.), Cretaceous of Hemstead Co., Ark. R. L. Lamborn: Fish tooth (carboniferous), Irwin Station, Westmoreland Co., Pa. Dr. Jos. Leidy: Ivory of Mastodon, bored by mollusks, Rib of Manatee, and two fish vertebrae, Phosphate beds, Ashley River, S. C.; Tibia of *Palæosyops*, fossil turtle-eggs, near Ft. Bridger, Wyoming. Thomas Meehan: Four coal fossils, Schuylkill Co., Pa. J. W. Pike: Forty-eight specimens of fossil ferns, etc., Mazon Creek, Grundy Co., Ill. J. H. Redfield: *Pentremites Gordonii* (subcarboniferous). E. S. Reinhold: Thirty-six specimens coal fossils, Mahanoy City, Pa. A. L. Siler: Fossil (sacrum), West branch of South fork of Rio Virgin River, above Glendale, Utah. Wm. Spillman: *Cælorhynchus ornatus*, Clark Co., Miss. Charles Wachsmuth: Forty-five species of Crinoids, from the Burlington Limestone, Burlington, Iowa. Harry H. Wheeler: Crinoid, cut from a side-walk paved with upper Silurian Limestone, Wabash, Ind.; Four fossil Fishes, near Fort Bridger, Wyoming.

Ethnological and Miscellaneous.—Stephen Bowers: Sixteen Indian skulls, from a burial place, Santa Barbara, Cal.; Skull of Flathead Indian, Oregon; Skull of Peruvian, Onca, Peru. Miss E. S. Boyd: Hawaiian skull, Sandwich Islands. W. C. Desmont: Dart, used in salmon fishing by the Digger Indians, Sacramento River, Cal., 1858. Jacob Geismar: Stone axe and arrow-head, Haddonfield, N. J. Prof. S. S. Haldeman: Eight pieces modern Pueblo pottery, New Mexico; Tunisian drum, Tunis, N. Africa; Stone tomahawk, two hammers, chisel and pestle, Gloucester Co., N. J.; Stone chisel, Indiana; Pestle, Ohio; Stone implement found on the farm of Mr. Wittmer, Lancaster Co., Pa.; twelve pieces Pueblo pottery, New Mexico; two stone hammers, modern Sioux, and fragments of an earthen pot, from a cave, E. Tenn.; fifty-seven pieces of native pottery, two Sorcerer's chairs, Conjuror's rattle, Necklace, three bowls made of the gourd-like fruit of the calabash tree (*Crescentia cujeta*), by the Indians of British Guiana; Native cloth, Island of Corisco. Prof. W. de M. Hooper: Stone implement, used for skinning, Misner's Farm, Pittsburg, Carroll Co., Ind. Wm. L. Mactier: Snow-shoes, made by the Otonagon Indians of Michigan. Miss Miller: Antique linen shawl, vase, lamp, mummied human hand, ibis, etc., Egypt. Wm. J.

Potts: Fragments of Indian skeletons, pottery, etc., bank of the Delaware River, below Kaighn's Point, Camden, N. J. Jos. Wilcox: Fragments of pottery, from a mound, St. John's River, Fla.; Stone axe, pestle and arrow-head, Mitchell Co., N. C. ? — Two pieces Ancient Peruvian pottery.

C. F. PARKER.

Respectfully submitted by

JOSEPH LEIDY,
Chairman Curators.

REPORT OF THE BIOLOGICAL AND MICROSCOPICAL SECTION.

During the past year eighteen (18) meetings were held; the average attendance being thirty (30) persons.

The Annual exhibition was held on the evening of October 15th, at which time a large and interested company was present.

The following is a summary of the principal subjects presented during the year:—

Dec. 1st, 1879.—*Filariae* in the Bronchial Tubes of Cattle, by Dr. James McCoart.

Dec. 15th, 1879.—Modern Microscopical Work, by Dr. J. Gibbons Hunt.

Dec. 15th, 1879.—Description of *Psorosperms* found in Cysts of Fishes, by John Ryder.

Jan. 5th, 1880.—*Pleuro-Pneumonia* of Cattle, by Dr. John Gadsden.

Jan. 15th, 1880.—The Microscope as a means of Investigation, by Dr. Carl Seiler.

Feb. 2d, 1880.—The Preparation of Material for Microscopical Examination, by Dr. Seiler.

Feb. 2d, 1880.—Nuclei of the Eggs of the Common Limpet, by Mr. John Ryder.

Feb. 2d, 1880.—Observations upon the Nervous System of the Common Centipede, by Mr. John Ryder.

Feb. 2d, 1880.—Observations upon a specimen of *Actinoptærium*, by Mr. Edward Potts.

Feb. 16th, 1880.—The Mounting of Microscopic Objects, by Dr. Seiler.

Feb. 16th, 1880.—Description of *Rhipidodendron* and *Halteria*, by Mr. John Ryder.